

**AMENDMENTS TO THE CLAIMS**

1. (previously presented) A reflective article, comprising:

a substrate comprising an amorphous thermoplastic resin having

a heat distortion temperature of at least about 140°C measured at 66 pounds per square inch according to ASTM D648,

a density less than 1.7 grams per milliliter, and

an organic volatiles content less than 1,000 parts per million measured according to ASTM D4526;

wherein the amorphous thermoplastic resin is selected from polyetherimides, polyetherimide sulfones, polysulfones, polyethersulfones, polyphenylene ether sulfones, poly(arylene ether)s, polycarbonates, polyester carbonates, polyarylates, and mixtures thereof;

a reflective metal layer; wherein the reflective metal layer comprises a metal selected from aluminum, silver, gold, nickel, palladium, platinum, copper, and alloys thereof;

a haze-prevention layer interposed between the substrate and the reflective metal layer, wherein the haze-prevention layer comprises a material having a volume resistivity of at least  $1 \times 10^{-4}$  ohm-centimeters measured according to ASTM D257 at 25°C and a tensile modulus of at least about  $3 \times 10^5$  pounds per square inch measured according to ASTM D638 at 25°C; wherein the haze-prevention layer comprises a plasma-polymerized organosilicone; and

a protective layer comprising the plasma decomposition product of an oxidant and a reactant gas selected from silanes, disilanes, and organosilicon compounds; wherein the reflective layer is interposed between the haze-prevention layer and the protective layer;

wherein the protective layer is in contact with the reflective metal layer;

wherein the reflective metal layer is in contact with the haze-prevention layer; and

wherein the haze-prevention layer is in contact with the substrate.

2-3. (canceled)

4. (original) The reflective article of Claim 1, wherein the substrate is substantially free of inorganic filler.

5. (previously presented) The reflective article of Claim 1, wherein the substrate has a thickness of about 0.1 to about 20 millimeters.

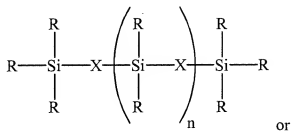
6. (canceled)

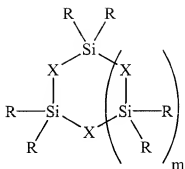
7. (original) The reflective article of Claim 1, wherein the reflective metal layer comprises aluminum.

8. (original) The reflective article of Claim 1, wherein the reflective metal layer has a thickness of about 10 to about 1000 nanometers.

9. (canceled)

10. (previously presented) The reflective article of Claim 1, wherein the organosilicone has the formula





wherein each occurrence of R is independently hydrogen, C<sub>1</sub>-C<sub>6</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>3</sub>-C<sub>6</sub> alkenyl alkyl, or C<sub>6</sub>-C<sub>18</sub> aryl; n is 0 to 100; m is 1 to 100; and X is -O- or -NH-.

11. (previously presented) The reflective article of Claim 1, wherein the organosilicone is octamethyl(cyclotetrasiloxane), hexamethyl(cyclotrisiloxane), tetramethyldisiloxane, hexamethyldisiloxane, octamethyltrisiloxane, vinyltriethoxysilane, vinyltrimethoxysilane cyclotetra(methylvinylsiloxane), cyclotri(methylvinylsiloxane), hexamethyldisilazane, or a mixture thereof.

12-14. (canceled)

15. (original) The reflective article of Claim 1, wherein the haze-prevention layer has a thickness of about 100 nanometers to about 100 micrometers.

16. (previously presented) The reflective article of Claim 1, wherein the protective layer has a percent transmittance of at least 90% measured according to ASTM D1003 at 25°C.

17. (original) The reflective article of Claim 1, comprising a surface with a reflectivity of at least 80% measured according to ASTM D523.

18. (original) The reflective article of Claim 1, wherein the article is an automotive headlight reflector.

19. (previously presented) A reflective article, consisting essentially of:

a substrate comprising an amorphous thermoplastic resin having

a heat distortion temperature of at least about 140°C measured at 66 pounds per square inch according to ASTM D648,

a density less than 1.7 grams per milliliter, and

an organic volatiles content less than 1,000 parts per million measured according to ASTM D4526;

wherein the amorphous thermoplastic resin is selected from polyetherimides, polyetherimide sulfones, polysulfones, polyethersulfones, polyphenylene ether sulfones, poly(arylene ether)s, polycarbonates, polyester carbonates, polyarylates, and mixtures thereof;

a reflective metal layer; wherein the reflective metal layer comprises a metal selected from aluminum, silver, gold, nickel, palladium, platinum, copper, and alloys thereof;

a haze-prevention layer interposed between the substrate and the reflective metal layer, wherein the haze-prevention layer comprises a material having a volume resistivity of at least  $1 \times 10^{-4}$  ohm-centimeters measured according to ASTM D257 at 25°C and a tensile modulus of at least about  $3 \times 10^5$  pounds per square inch measured according to ASTM D638 at 25°C; wherein the haze-prevention layer comprises a plasma-polymerized organosilicone; and

a protective layer comprising the plasma decomposition product of an oxidant and a reactant gas selected from silanes, disilanes, and organosilicon compounds; wherein the reflective layer is interposed between the haze-prevention layer and the protective layer;

wherein the protective layer is in contact with the reflective metal layer;

wherein the reflective metal layer is in contact with the haze-prevention layer; and

wherein the haze-prevention layer is in contact with the substrate.

20. (canceled)

21. (previously presented) A method for preparing a reflective article, comprising:

applying a haze-prevention layer to a surface of a substrate;

wherein the haze-prevention layer comprises a material having a volume resistivity of at least  $1 \times 10^{-4}$  ohm-centimeters measured according to ASTM D257 at 25°C and a tensile modulus of at least about  $3 \times 10^5$  pounds per square inch measured according to ASTM D638 at 25°C; wherein the haze-prevention layer comprises a plasma-polymerized organosilicone; and

wherein the substrate comprises an amorphous thermoplastic resin having a heat distortion temperature of at least about 140°C measured at 66 pounds per square inch according to ASTM D648, a density less than 1.7 grams per milliliter, and an organic volatiles content less than 1,000 parts per million measured according to ASTM D4526; wherein the amorphous thermoplastic resin is selected from polyetherimides, polyetherimide sulfones, polysulfones, polyethersulfones, polyphenylene ether sulfones, poly(arylene ether)s, polycarbonates, polyester carbonates, polyarylates, and mixtures thereof;

applying a reflective metal layer to a surface of the haze-prevention layer; wherein the reflective metal layer comprises a metal selected from aluminum, silver, gold, nickel, palladium, platinum, copper, and alloys thereof; and

applying a protective layer to a surface of the reflective metal layer; wherein the protective layer comprises the plasma decomposition product of an oxidant and a reactant gas selected from silanes, disilanes, and organosilicon compounds; and wherein the reflective layer is interposed between the haze-prevention layer and the protective layer.

22. (previously presented) The method of Claim 21, wherein the protective layer has a percent transmittance of at least 90% measured according to ASTM D1003.

23. (canceled)